

SELECTIVE COUPLING OF TERMINAL OLEFINS WITH  
ETHYLENE TO MANUFACTURE LINEAR  $\alpha$ -OLEFINS

ABSTRACT OF THE DISCLOSURE

5

A process for producing a linear  $\alpha$ -olefin which comprises:  
reacting a stoichiometric excess of a terminal  $C_n$  olefin with ethylene in the  
presence of an organometallic catalyst to produce a  $C_{n+2}$  linear  $\alpha$ -olefin, wherein  
10 the catalyst is capable of producing a Schulz-Flory distribution of the linear  $\alpha$ -  
olefin with a Schulz-Flory constant of less than about 0.8 and wherein n is an  
integer between about 3 to 20.